

In The Claims:

Amend claims 1-2, 7, 9-10, 12-15, 18-19, and 22 as shown in the following clean version of the amended claims:

1 1. (Amended) In a network computing system, an apparatus for
2 providing direct processing access between application servers
3 and application users comprising:

4 a main storage capable of establishing processing
5 communication with more than one application server;

6 said main storage containing a queuing mechanism for
7 retrieval and storage of incoming and outgoing data without
8 causing interrupts in any running programs;

9 an interface element capable of establishing processing
10 communication between said queuing mechanism and at least one
11 application user;

12 an interrogator operating independent of any
13 application server for examining multiple queues in said queue
14 mechanism to transfer appropriate requests, responses and data
15 between said application servers and said application user(s).

1 2. (Amended) The apparatus of claim 1, wherein said
2 Interface Element further comprises a Connector Interface Element
3 and a Network Interface Element.

1 3. The apparatus of claim 2, wherein said Connector
2 Interface Element is in processing communication with said main
3 storage via a Self-Timed Interface or an STI bus.

1 4. The apparatus of claim 2, wherein said Connector
2 Interface Element comprises a plurality of processors.

Sub 5. The apparatus of claim 4, wherein one of said plurality
of processors is used for redundancy purposes.

C 6. The apparatus of claim 2, wherein said main storage can
be in processing communication with a plurality of network
elements and servers.

B7 7. (Amended) The apparatus of claim 6, wherein said
plurality of network elements comprise at least a web-server.

8. The apparatus of claim 7, wherein said web-server is a
TCP/IP oriented server.

B7 9. (Amended) The apparatus of claim 2, wherein said
Connector Interface Element and said Network Interface Element
are in processing communication with one another via a Peripheral
Controller Interface bus or a PCI bus.

10. (Amended) The apparatus of claim 2, wherein said
Network Interface Element further comprises an I/O device
adapter, at least one more processor and a local storage area.

11. The apparatus of claim 10, wherein said Network
Interface Element is capable of connecting to one or more
individual application users.

12. (Amended) The apparatus of claim 1, wherein said
Interface Element performs computing network environment
functions establishing network communications between said
application server(s) and said application user(s).

13. (Amended) The apparatus of claim 1, wherein said
Interface Element performs control unit functions.

1 14. (Amended) In a network computing system having a main
2 storage capable of connecting to more than one application server
3 and an interface element with at least one adapter capable of
4 establishing processing communication with at least one
5 application user(s), an apparatus for providing direct processing
6 access between said main storage and said adapter comprising:

7 data receivers set up in each of said application
8 servers for processing data;

9 a plurality of queues located in main storage for
10 providing continuous running of programs without interruptions;

11 an updatator for changing the status of said network
12 computing system every time new data is received, deleted or
13 modified;

14 an interrogator operating independent of any
15 application server for interrogating multiple existing queues in
16 said main storage simultaneously to process any received data or
17 requests such that data or requests may be received from more
18 than one application server;

19 a determinator for interrogation and routing of data to
20 appropriate application user to which said data has been
21 forwarded.

1 15. (Amended) The apparatus of claim 14, wherein said
2 Interface Element further comprises a Connector Interface Element
3 and a Network Interface Element.

1 16. The apparatus of claim 15, wherein said Connector
2 Interface Element is in processing communication with said main
3 storage via a Self-Timed Interface or an STI bus.

1 17. The apparatus of claim 15, wherein said main storage can
2 be in processing communication with a plurality of network
3 elements and servers.

1 18. (Amended) The apparatus of claim 15, wherein said
2 Connector Interface Element and said Network Interface Element
3 are in processing communication with one another via a Peripheral
4 Controller Interface bus or a PCI bus.

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1 19. (Amended) The apparatus of claim 15, wherein said
2 Network Interface Element further comprises an I/O device
3 adapter, at least one more processor and a local storage area.

1 20. The apparatus of claim 19, wherein said Network
2 Interface Element is capable of connecting to one or more
3 individual application users.

1 21. The apparatus of claim 15, wherein said Connector
2 Interface Element is in processing communication with said main
3 storage via a direct access memory I/O device.

1 22. (Amended) The apparatus of claim 15, wherein said
2 Connector Interface Element and said Network Interface Element
3 are in processing communication with one another via a direct
4 access memory I/O device.